

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	5	714/798 and (mark\$1 adj detect\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L4	2	"5424881".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L5	3	375/364 and (mark\$1 adj detect\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L7	3	375/364 and (mark\$1 adj detect\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L8	14	(several or plurality) with mark with detect\$3 with unit and serial with parallel	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 16:58
L9	3	((data or bits) near parallel) with (detect\$5 near synchron\$5)) with (detect\$5 near mark\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L11	455	714/798	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L12	1256	predetermined adj mark	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L13	1	L12 and L11	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58

## EAST Search History

L14	1	(several or plurality) with mark with detect\$3 with unit with synchroniz\$5 and serial with parallel	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 16:58
L15	455	714/798	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L16	1256	predetermined adj mark	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L17	1	L16 and L15	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L18	3	370/514 and (mark adj detect\$5)	USPAT	OR	OFF	2007/06/06 16:58
L19	1206	370/503 and parallel	USPAT	OR	OFF	2007/06/06 16:58
L20	0	((370/503 and parallel) and detect\$4) and (mark adj detect\$5)	USPAT	OR	OFF	2007/06/06 16:58
L21	764	375/364	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 16:58
L22	0	L21 and L12	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L23	2	"5424881".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L24	4031	(several or plurality) with mark with detect\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 16:58

## EAST Search History

L25	16	mark with detect\$3 with synchroniz\$5 same serial with parallel	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 16:58
L26	0	360/503 and parallel	USPAT	OR	OFF	2007/06/06 16:58
L27	892	((data or bits) near parallel) and (detect\$5 near synchron\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L28	21319	detect\$5 near mark\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L29	27506	detect\$5 near synchron\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L30	52700	(data or bits) near parallel	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L31	32325	mark\$1 near2 detect\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L32	8	L21 and L31	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L33	19	(several or plurality) with mark with detect\$3 with synchroniz\$5 and serial with parallel	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 16:58
L34	4	370/509 and (mark adj detect\$5)	USPAT	OR	OFF	2007/06/06 16:58
L35	3	370/514 and (mark adj detect\$5)	USPAT	OR	OFF	2007/06/06 16:58

## EAST Search History

L36	3	375/364 and (mark\$1 near1 detect\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L37	1124	375/365	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L38	3	((data or bits) near parallel) same (detect\$5 near synchron\$5)) same (detect\$5 near mark\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L39	2	"5661708".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 16:58
L40	3	375/364 and (mark\$1 near detect\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L41	1155	375/368	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L42	173	mark with detect\$3 with synchroniz\$5 and serial with parallel	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 16:58
L43	2	"5661708".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 16:58
L44	2453	375/355	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58

## EAST Search History

L45	461	(several or plurality) with mark with detect\$3 with unit	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 16:58
L46	0	((370/503 and parallel) and detect\$4) and mark\$1 adj detect\$4	USPAT	OR	OFF	2007/06/06 16:58
L47	4	375/365 and (mark\$1 adj detect\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L48	666	370/510	USPAT	OR	OFF	2007/06/06 16:58
L49	14343	mark\$1 adj detect\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L50	1655	370/509	USPAT	OR	OFF	2007/06/06 16:58
L51	2920264	parallel "mark detectors"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L52	994	(370/503 and parallel) and detect\$4	USPAT	OR	OFF	2007/06/06 16:58
L53	4402	mark adj detect\$5	USPAT	OR	OFF	2007/06/06 16:58
L54	10	mark with detect\$3 with synchroniz\$5 with serial with parallel	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 16:58
L55	2	"5696745".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 16:58
L56	891	370/514	USPAT	OR	OFF	2007/06/06 16:58
L57	4101	375/354	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58

## EAST Search History

L58	4	375/365 and (mark\$1 adj detect\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L59	2	(mark adj detect\$5) and 370/510	USPAT	OR	OFF	2007/06/06 16:58
L61	4	375/365 and (mark\$1 adj detect\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L62	3	370/514 and (mark adj detect\$5)	USPAT	OR	OFF	2007/06/06 16:58
L64	9	375/368 and (mark\$1 adj detect\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L66	78	parallel and "mark detectors"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L68	2	"5321560".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L69	18	((data or bits) near parallel) and (detect\$5 near synchron\$5)) and (detect\$5 near mark\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L73	2	"5321560".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L75	9	375/368 and (mark\$1 adj detect\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L76	3	((data or bits) near parallel) with (detect\$5 near synchron\$5)) with (detect\$5 near mark\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L78	4	370/509 and (mark adj detect\$5)	USPAT	OR	OFF	2007/06/06 16:58
L79	2	(mark adj detect\$5) and 370/510	USPAT	OR	OFF	2007/06/06 16:58

## EAST Search History

L81	3	370/514 and (mark adj detect\$5)	USPAT	OR	OFF	2007/06/06 16:58
L82	78	parallel and "mark detectors"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L83	8	375/364 and (mark\$1 near2 detect\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L84	5	714/798 and (mark\$1 adj detect\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L87	9	375/368 and (mark\$1 adj detect\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L89	18	((data or bits) near parallel) and (detect\$5 near synchron\$5)) and (detect\$5 near mark\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L90	16	(mark\$1 adj detect\$5) and 375/355	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L91	23	375/354 and (mark\$1 adj detect\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58
L93	2	"6654838".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 16:58
L94	28	(mark AND synchronization AND parallel AND detecting and unit).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 16:58

## EAST Search History

L96	2	"5,491,678".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 16:58
L97	2	"5,748,834".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 16:58
L98	2	"5,404,558".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 16:58
L99	8	(mark AND synchronization AND parallel AND (detecting with unit)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 16:58
L100	1	("mark" AND synchronization AND parallel AND "detecting units").clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 16:58
L101	2	"5661708".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 16:58
L102	4	375/365 and (mark\$1 adj detect\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 16:58



## EAST Search History

L104	2	"5731880".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 17:06
L105	2	"5798844".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 17:08

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"predetermined mark" synchronization parallel

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**Web** Results 1 - 5 of 5 for "**predetermined mark**" synchronization parallel "**detecting unit**". (0.23 second)

Did you mean: "predetermined mark" synchronization parallel "**detection** unit"

Data processor and data processing method - Patent 20020069390

The mark **detecting unit** in the controller unit detects the **predetermined mark** for detecting **synchronization** from the **parallel** data received with the shift ...

[www.freepatentsonline.com/20020069390.html](http://www.freepatentsonline.com/20020069390.html) - 119k - [Cached](#) - [Similar pages](#)

Image processing apparatus for discriminating an original having a ...

A CLOCK signal is a pixel **synchronization** signal which causes the transfer of the image .... pattern is formed with the thin lines arranged in **parallel**. ...

[www.freepatentsonline.com/5731880.html](http://www.freepatentsonline.com/5731880.html) - 155k - [Cached](#) - [Similar pages](#)

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Duplicator having function concerning specific mark put on ...

A mark **detecting unit** 24 checks the supplied image data E and may detect a ..... or both the **predetermined mark** among the above-mentioned duplication ...

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Image processing apparatus for discriminating an original having a ...

An image processing apparatus includes an input unit (210) for producing visible information and invisible information, a **detecting unit** for detecting a ...

[www.patentgenius.com/patent/5731880.html](http://www.patentgenius.com/patent/5731880.html) - 158k - Supplemental Result - [Cached](#) - [Similar pages](#)

Duplicator having function concerning specific mark put on ...

In the duplicator, the mark **detecting unit** 24 can be formed using a well-known OCR ... or both the **predetermined mark** among the above-mentioned duplication ...

[www.wikipatents.com/5798844.html](http://www.wikipatents.com/5798844.html) - 287k - [Cached](#) - [Similar pages](#)

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"predetermined mark" synchronizati

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"predetermined mark" AND synchronization AND paral

Search

☒ Journal sources ☒ Preferred Web sources ☒ Other Web sources ☐ Exact phrase

Searched for:: :All of the words:"**predetermined mark**" AND **synchronization** AND **parallel** AND "**detectin**

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Or  
AI

- ☐ 1. [Image processing apparatus for discriminating an original having a predetermined pattern](#)

**Takaragi, Yoichi / Yamada, Masanori / Sato, Yoshinobu / Suzuki, Yasumichi / Yamada, Yasuhiro / Kanno, Akiko / Uchida, Yoshiki, UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Mar 1998**  
patno:US5731880

...R, G and B sensors are arranged in **parallel** to each other to sense the same line...driving signal, a VE signal and a line **synchronization** signal HSYNC. The CCD driving signal...operation. A CLOCK signal is a pixel **synchronization** signal which causes the transfer of...

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**fast**

"predetermined mark" AND synchronization AND paral

Search

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mark AND synchronization AND parallel AND "detecting unit"

Search

☒ Journal sources ☒ Preferred Web sources ☒ Other Web sources ☐ Exact phrase

Searched for:: :All of the words: **mark AND synchronization AND parallel AND "detecting unit"**

Found:: : **98 total** | **0 journal results** | **97 preferred web results** | **1 other web results**

Sort by:: : **relevance** | **date**

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- ☐ 1. Exposure apparatus and method that use mark patterns to determine image formation characteristics of the apparatus prior to exposure  
**Taniguchi, Tetsuo, UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT**, Nov 1998  
patno:US5841520  
...stage WST for moving the wafer W in **synchronization** with the scanning for the reticle R...interposed therebetween. A reference **mark** formed on the reticle R is observed...the reticle R at a velocity of  $V_w$  in **synchronization** with the reticle R. Thus an entire...for detecting a positional adjustment **mark** (alignment **mark**) formed on the wafer...  
**Full text available at patent office. For more in-depth searching go to** LexisNexis®  
[view all 97 results from Patent Offices](#)  
[similar results](#)
- ☐ 2. Image forming apparatus which modifies image forming condition depending on the number of photosensitive drums used for a particular image formation  
**Minami, Takeshi / Kasamatsu, Toru / Satake, Takeshi / Kawata, Satoru, UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT**, May 2000  
patno:US6061542  
...switch. A resist **mark detecting unit** 39 is set above...the resist **mark detecting unit** 39. The resist...V-shaped resist **mark** is composed of...line that is **parallel** to the transportation...the resist **mark detecting unit** 39 on a detection...  
**Full text available at patent office. For more in-depth searching go to** LexisNexis®  
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[similar results](#)
- ☐ 3. Color image forming apparatus and method  
**Nagai, Etsuo, UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT**, Aug 2000  
patno:US6108501  
...**mark** sensor") employed as a **mark** detecting mechanism for detecting the standard **mark** on the intermediate transfer...polygon motor not shown. A **synchronization** detecting mechanism functioning...plural light beams as the line **synchronization** signal. In such a structure...respectively converted to the **parallel** light rays by use of the...  
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Dic  
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act  
bis  
chi  
dis  
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wo  
Or  
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F

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☐ 4. [Projection exposure method and apparatus](#)

**Nishi, Kenji**, *EUROPEAN PATENT APPLICATION*, Jul 1998  
patno:EP855623


...alignment step is performed, for example, on the basis of the contour of the wafer, or by detecting a search alignment **mark** on the wafer. (3) Next, a fine alignment step is performed, in which the position of each of the shot areas on the wafer...reduction of the wafer exposure time. However, it is impossible to easily increase the scanning velocity because the **synchronization** accuracy is deteriorated. Important conditions for such a projection exposure apparatus other than those concerning the...

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☐ 5. [Image forming apparatus](#)

**Taka, Kyosuke / Takahashi, Kazunobu / Sakagami, Hidekazu / Manabe, Nobuo / Harada, Yoshikazu / Fukutome, Shoichi**, *EUROPEAN PATENT APPLICATION*, May 2000  
patno:EP999479

...of multiple image bearers arranged in **parallel** to each other and rotationally driven...rotation of the image bearer has a reference **mark** which enables identification of the phase...which each detector detects its reference **mark** with the time at which the reference **mark** of the reference image bearer is detected...of multiple image bearers arranged in **parallel** to each other and rotationally driven...

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☐ 6. [Multiimage forming apparatus](#)

**Murayama, Yasushi / Hoshino, Osamu / Chiku, Kazuyoshi / Sato, Yukio / Kubota, Yoichi / Miyagi, Ken / Hirose, Yoshihiko / (...)** / **Kanekura, Kazunori**, *EUROPEAN PATENT*, Nov 1988  
patno:EP291738

...with the position of said registration **mark** detected by said detecting means. Furthermore...forming means so as to form a registration **mark** to match the positions of said images...recording position of said registration **mark** and correcting means for correcting a...photo sensitive drums are arranged in **parallel** according to still another embodiment...

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☐ 7. [Multiimage forming apparatus](#)

**Murayama, Yasushi / Hoshino, Osamu, c/o Canon K.K. / Chiku, Kazuyoshi, c/o Canon K.K. / Sato, Yukio / Kubota, Yoichi, c/o Canon K.K. / Miyagi, Ken / Hirose, Yoshihiko / (...)** / **Kanekura, Kazunori**, *EUROPEAN PATENT*, Apr 1992  
patno:EP478005

...photo sensitive drums or the like) in **parallel** [ Japanese Unexamined Patent Publication...matching without adding a registration **mark** to a transfer material. These and other...photo sensitive drums are arranged in **parallel** according to still another embodiment...a diagrammatical view for explaining **mark** areas of registration **mark** images which...

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☐ 8. [Multiimage forming apparatus](#)

**Murayama, Yasushi / Hoshino, Osamu / Chiku, Kazuyoshi / Sato, Yukio / Kubota, Yoichi / Miyagi, Ken / Hirose, Yoshihiko / (...) / Kanekura, Kazunori, UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Feb 1990**  
patno:US4903067

...reflector 24 is moved in almost **parallel** in the direction of a. By...reflector 24 is moved in **parallel** in the direction of b which...in FIG. 3B can be moved in **parallel** to the position of a scan...diagram of a registration **mark detecting unit** and a unit to perform the...

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☐ **9. EXPOSURE METHOD AND DEVICE**

**NISHI, Kenji Nikon Corporation, EUROPEAN PATENT APPLICATION, Nov 2000**  
patno:EP1052683


...used for the first focus position- **detecting unit**. As a result, when the angle of inclination...detectable range of the first focus position-**detecting unit**. When the first measuring point is...example, the second focus position-**detecting unit** which has a wide detectable range although...

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☐ **10. Electronic alarm timepiece**

**Morokawa, Shigeru / Sekiya, Fukuo / Hashimoto, Yukio / Nomura, Yasushi / Koga, Keiichiro, UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, May 1981**  
patno:US4270194


...shifter circuits 40, a bit serial-to-**parallel** converter 42, a decoder 44, a word serial-to-**parallel** converter 46, a display driver 20...register ring 58 are connected in **parallel** to data **detecting unit** 70, consisting of carry-out demand...

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☐ **11. Electronic timepiece**

**Morokawa, Shigeru / Sekiya, Fukuo / Hashimoto, Yukio / Nomura, Yasushi / Koga, Keiichiro, UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Apr 1981**  
patno:US4262351


...shifter circuits 40, a bit serial-to-**parallel** converter 42, a decoder 44, a word serial-to-**parallel** converter 46, a display driver 20...register ring 58 are connected in **parallel** to data **detecting unit** 70, consisting of carry-out demand...






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☐ **12. Electronic timepiece**

**Morokawa, Shigeru / Sekiya, Fukuo / Hashimoto, Yukio / Nomura, Yasushi / Koga, Keiichiro, UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Sep 1981**  
patno:US4292680


...shifter circuits 40, a bit serial-to-**parallel** converter 42, a decoder 44, a word serial-to-**parallel** converter 46, a display driver 20...register ring 58 are connected in **parallel** to data **detecting unit** 70, consisting of carry-out demand...

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- ☐ **13. Electronic timepiece**  
**Morokawa, Shigeru / Sekiya, Fukuo / Hashimoto, Yukio / Nomura, Yasushi / Koga, Keiichiro, UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Nov 1981**  
patno:US4302828  
...shifter circuits 40, a bit serial-to-**parallel** converter 42, a decoder 44, a word serial-to-**parallel** converter 46, a display driver 20...register ring 58 are connected in **parallel** to data **detecting unit** 70, consisting of carry-out demand...  
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- ☐ **14. ELECTRONIC TIMEPIECE**  
**UNITED KINGDOM PATENT APPLICATION, Nov 1978**  
patno:GB1533108  
...shifter circuits 40, a bit serial-to-**parallel** 40 converter 42, a decoder 44, a word serial-to-**parallel** converter 46, a display driver 20...register ring 58 are connected in **parallel** to data **detecting unit** 70, composed of carryout demand...  
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- ☐ **15. ELECTRONIC TIMEPIECE**  
**UNITED KINGDOM PATENT APPLICATION, Nov 1978**  
patno:GB1533103  
...shifter circuits 40, a bit serial-to-**parallel** 40 converter 42, a decoder 44, a word serial-to-**parallel** converter 46, a display driver 20...register ring 58 are connected in **parallel** to data **detecting unit** 70, composed of carry-out demand...  
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- ☐ **16. Electronic timepiece**  
**Morokawa, Shigeru / Sekiya, Fukuo / Hashimoto, Yukio, UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Apr 1979**  
patno:US4150535  
...shifter circuits 40, a bit serial-to-**parallel** converter 42, a decoder 44, a word serial-to-**parallel** converter 46, a display driver 20...register ring 58 are connected in **parallel** to data **detecting unit** 70, consisting of carry-out demand...  
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- ☐ **17. Electronic timepiece**  
**Morokawa, Shigeru / Sekiya, Fukuo / Hashimoto, Yukio / Nomura, Yasushi / Koga, Keiichiro, UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Nov 1981**  
patno:US4302829  
...shifter circuits 40, a bit serial-to-**parallel** converter 42, a decoder 44, a word serial-to-**parallel** converter 46, a display driver 20...register ring 58 are connected in **parallel** to data **detecting unit** 70, consisting of carry-out demand...  
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- ☐ **18. ELECTRONIC TIMEPIECE**  
**UNITED KINGDOM PATENT APPLICATION, Nov 1978**  
patno:GB1533106  
...shifter circuits 40, a bit serial-to-**parallel** converter 42, a decoder 44, a word serial-to-



**parallel** converter 45 46, a display driver...register ring 58 are connected in **parallel** to data **detecting unit** 70, composed of carry-out demand...


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☐ **19. Electronic timepiece**

**Morokawa, Shigeru / Sekiya, Fukuo / Hashimoto, Yukio / Nomura, Yasushi / Koga, Keiichiro**, *UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT*, Nov 1980

patno:US4236241

...shifter circuits 40, a bit serial-to-**parallel** converter 42, a decoder 44, a word serial-to-**parallel** converter 46, a display driver 20...register ring 58 are connected in **parallel** to data **detecting unit** 70, consisting of carry-out demand...

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☐ **20. Apparatus and method for determining the coordinates of a three-dimensional object**

**Murai, Shunji / Ohtomo, Fumio / Ohtani, Hitoshi**, *UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT*, Aug 1989

patno:US4858157

...corresponding point **mark** to the second image...apparatus comprising: a **detecting unit** constituted by an...direction becomes **parallel** with the x-axis direction...106 constitute a **detecting unit** (A) 101 and a **detecting unit** (B) 102, respectively...

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mark AND synchronization AND parallel AND "detecting unit"

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## » Key

IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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## » Key

IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

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Tsung-Chuan Huang; Po-Hsueh Hsu; Tze-Nan Sheng;  
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10-12 Dec. 1997 Page(s):397 - 403  
Digital Object Identifier 10.1109/ICAPP.1997.651508  
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- ☐ 2. **Parallel running system of three oscillators coupled through a six-port m**  
Ohta, I.; Kaneko, T.;  
[Microwave Theory and Techniques, IEEE Transactions on](#)  
Volume 37, Issue 11, Nov. 1989 Page(s):1699 - 1707  
Digital Object Identifier 10.1109/22.41034  
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- ☐ 3. **2.8 Gbit/s optical interconnection circuit using D8B1C/D8B1M coding sch**  
Uematsu, Y.; Murata, K.; Yamabayashi, Y.; Kobayashi, Y.;  
[Microwave Symposium Digest, 1995. IEEE MTT-S International](#)  
16-20 May 1995 Page(s):1003 - 1006 vol.3  
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- ☐ 4. **On the performance of synchronized programs in distributed networks w**  
**processing times and transmission delays**  
Rajsbaum, S.; Sidi, M.;  
[Parallel and Distributed Systems, IEEE Transactions on](#)  
Volume 5, Issue 9, Sept. 1994 Page(s):939 - 950  
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Inventor Name	City	State/Country
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<a href="#">08779095</a>	<a href="#">5696745</a>	150	01/06/1997	APPARATUS AND METHOD FOR DETECTIVE A SYNC PATTERN AND AN ADDRESS MARK WITHIN DATA PROVIDED FROM A RECORDING MEDIUM	YAMAWAKI, MASASHI
<a href="#">08874673</a>	<a href="#">5987630</a>	150	06/13/1997	METHOD OF DESCRAMBLING SCRAMBLED DATA USING A SCRAMBLE PATTERN AND SCRAMBLE PATTERN GENERATOR	YAMAWAKI, MASASHI
<a href="#">08929063</a>	<a href="#">6158038</a>	150	09/15/1997	METHOD AND APPARATUS FOR CORRECTING DATA ERRORS	YAMAWAKI, MASASHI
<a href="#">09841077</a>	Not Issued	71	04/25/2001	Data processor and data processing method	YAMAWAKI, MASASHI
<a href="#">09873369</a>	<a href="#">6715123</a>	150	06/05/2001	REAL-TIME RECORDING SYSTEM AND REAL-TIME RECORDING METHOD	YAMAWAKI, MASASHI
<a href="#">09975151</a>	<a href="#">6687198</a>	150	10/12/2001	INFORMATION ACCESS DEVICE, INFORMATION ACCESS METHOD, AND INFORMATION STORAGE MEDIUM ACCESS SYSTEM	YAMAWAKI, MASASHI
<a href="#">10263200</a>	<a href="#">7149171</a>	150	10/03/2002	APPARATUS FOR WRITING DATA AND METHOD FOR GENERATING DVD FORMAT	YAMAWAKI, MASASHI

				DATA	
<a href="#">11073603</a>	<a href="#">7154323</a>	150	03/08/2005	DELAY CIRCUIT AND CONTROL METHOD OF THE DELAY CIRCUIT	YAMAWAKI, MASASHI
<a href="#">11223954</a>	Not Issued	30	09/13/2005	Method and apparatus for demodulating WAP of optical disc	YAMAWAKI, MASASHI

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